Emission Summary

Source Number: 82-0032-02 Permit Number: 972353

Source Status: New☐ Modification☒ Expansion☐ Relocation☐ **Permit Status:** New☒ Renewal☐

PSD☐ NSPS☐ NESHAPs☐ **Previous Permit Number:** Construction: _____ Operating: 071923

	Pounds/Hour			Tons/Year				Date of Data	Applicable 1200-03-
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change		
PM									
SO_2									
CO									
VOC									
NO_x	14.08	14.08	14.08	53.96	53.96	53.96		12/7/2016	07-.07(2)
HF	1.76	1.76	1.76	7.06	7.06	7.06		12/7/2016	07-.07(2)

*Emissions Calculations Based on Emissions Performance Test Conducted on May 9, 2016 (Report Submitted July 11, 2016)

- NO_x emissions set at 4.40 lb/hr (for Tank 265 and 368) and HF emissions set at 0.66 lb/hr (for Tank 265 and 368)
- Tank 265 and 365 have 10,000 gal volume; 325 ft^2 surface area
- Tank Large OD has 12,000 gal volume; 222 ft^2 surface area

- Tank Large OD has maximum operation of 5840 hr/yr
- Tanks 368 and 265 have maximum operation of 8760 hr/yr

-NOx emissions based on volume as it is maximized by steel wetted surface area
-HF emissions are evaporative, therefore based on surface area

PERMITTING PROGRAM: B. Hall DATE: 5-19-2017

CONSTRUCTION PERMIT SUMMARY REPORT

Company Name: Bristol Metals, LLC File Number: 82-0032 EPS Initials: BMH

Permit Number(s): 972353 Source Point Number(s): 02

Application Received (date): December 7, 2016 Application Complete (date): March 14, 2017

Air Quality Analysis Performed? Yes☐ No☒

Briefly describe the project: This modification is to replace the smallest of three pickling tanks with a larger tank. This source still consists of three HNO3/HF acid baths for the pickling of steels. The volumes of the tanks are 10,000 gallons (both Tank # 368 and 265) and 12,000 gallons ('Large OD' Tank). The replaced tank had a volume of 3,400 gallons. The maximum acid concentration listed is 10% by mass HNO3 and 4% by mass HF in an aqueous solution. No controls currently exist. Only NOx and HF are emitted by the source. An emissions performance test was performed on May 9, 2016. Tank #368 was tested and shown to emit 4.4 lbs/hr of NO_x and 0.656 lbs/hr of HF. Tank #265 was assumed to have equivalent emissions and the 'Large OD' Tank's emissions were calculated as 4.84 lbs/hr of NOx and 0.722 lbs/hr of HF.

RULES ANALYSIS

Title V☐ Cond. Major☐ Minor☒ Source category listed in 1200-03-09-.01(4)(b)1.(i)? Yes☐ No☒

Reason for PSD:	New source above ____ TPY	☐	Sig. increase in ____ emissions	☐	N/A ☐
Applicable NSPS:	40 CFR Part 60, Subpart ____	☐	State Rule 1200-3-16-. ____	☐	N/A ☐
Applicable NESHAP:	40 CFR Part 61, Subpart ____	☐	State Rule 1200-3-11-. ____	☐	N/A ☐
Applicable NESHAP:	40 CFR Part 63, Subpart ____	☐	State Rule 1200-3-31-. ____	☐	N/A ☐

Other Applicable State Rules

PM Emissions:	1200-03-	____	____	☐	N/A ☒	NO_x Emissions:	1200-03-	07	-. .07(2)	☒	N/A ☐
SO_2 Emissions:	1200-03-	____	____	☐	N/A ☒	Lead Emissions:	1200-03-	____	-. ____	☐	N/A ☒
CO Emissions:	1200-03-	____	____	☐	N/A ☒	HF Emissions:	1200-03-	07	-. .07(2)	☒	N/A ☐
VOC Emissions:	1200-03-	____	____	☐	N/A ☒	_____ Emissions:	1200-03-	____	-. ____	☐	N/A ☒

Visible Emissions from Source 02 not to exceed 20 % opacity per Method 9 (Rule 1200-03-05-.01(1) & Rule 1200-03-05-.03(6))

Visible Emissions from ____ not to exceed ____ % opacity per Method ____ (Rule 1200-03-____)

Visible Emissions from ____ not to exceed ____ % opacity per Method ____ (Rule 1200-03-____)